

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'48", long 82°53'59", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi².

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for current water year and period of record from rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow. Maximum gage height for current water year and period of record from high-water mark in gage. Minimum discharge for current water year also occurred Oct. 5.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0130	13,800	14.90	Sep 17	0245	19,000	16.27

REVISIONS.--The maximum discharge for the water years 1983 and 1994 have been revised to 7,760 ft³/s, Feb. 2, 1983, gage height, 10.96 ft and 9,710 ft³/s, Aug. 17, 1994, gage height, 12.63 ft superseding figures published in reports for 1983 and 1994.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	77	171	130	103	131	123	132	102	171	202	95
2	64	75	159	128	113	180	115	228	89	146	165	246
3	62	73	152	126	211	191	112	183	83	172	149	122
4	62	71	161	124	143	158	115	153	85	178	125	93
5	59	192	170	182	134	152	106	142	81	138	120	82
6	60	313	147	164	951	309	105	136	77	143	122	87
7	60	165	137	134	479	214	103	127	76	118	101	3,700
8	62	127	131	133	310	184	101	e130	82	108	93	5,620
9	96	112	127	132	262	172	99	e152	90	133	88	1,400
10	121	104	567	122	233	163	96	e141	84	154	84	942
11	121	97	313	116	209	154	97	123	75	215	80	750
12	100	93	229	117	233	147	113	121	73	166	95	613
13	84	90	204	114	206	140	548	293	82	183	90	526
14	81	83	284	111	190	136	242	216	76	137	80	468
15	93	83	226	108	195	146	194	152	166	120	79	421
16	84	80	202	104	182	177	184	153	118	111	93	890
17	80	79	231	104	175	151	153	163	86	112	73	5,720
18	78	101	196	157	164	153	144	150	76	151	74	1,460
19	76	2,420	185	125	158	150	135	139	72	109	67	976
20	74	492	170	107	156	140	129	150	70	101	72	754
21	74	328	163	107	174	155	124	128	76	96	79	606
22	72	264	160	103	152	134	119	124	82	96	68	507
23	71	222	155	98	145	129	114	115	84	101	65	445
24	72	238	241	99	143	128	110	110	87	110	75	399
25	71	203	173	125	139	124	104	103	150	320	73	340
26	152	181	159	155	136	122	225	98	222	162	66	316
27	203	176	151	137	135	118	172	100	133	304	64	477
28	111	272	145	115	130	116	139	93	137	139	74	2,230
29	93	208	143	113	130	113	132	91	119	157	137	767
30	85	184	158	111	---	120	128	110	134	612	93	657
31	80	---	137	104	---	132	---	147	---	292	83	---
TOTAL	2,667	7,203	5,947	3,805	6,091	4,739	4,381	4,403	2,967	5,255	2,929	31,709
MEAN	86.0	240	192	123	210	153	146	142	98.9	170	94.5	1,057
MAX	203	2,420	567	182	951	309	548	293	222	612	202	5,720
MIN	59	71	127	98	103	113	96	91	70	96	64	82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	92.2	129	166	201	251	261	220	171	116	88.8	88.8	114
MAX	336	341	334	450	522	461	481	381	287	281	317	1,057
(WY)	(1996)	(1993)	(1984)	(1998)	(1998)	(1997)	(1983)	(2003)	(1992)	(1989)	(1994)	(2004)
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.0	53.0	42.0	29.3	27.6
(WY)	(1999)	(1982)	(1989)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(2002)	(1993)	(1998)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	72,147		82,096		160	
ANNUAL MEAN	198		224		87.5	
HIGHEST ANNUAL MEAN					224	2004
LOWEST ANNUAL MEAN					87.5	1988
HIGHEST DAILY MEAN	2,420	Nov 19	5,720	Sep 17	5,720	Sep 17, 2004
LOWEST DAILY MEAN	53	Sep 21	59	Oct 5	9.2	Sep 2, 1986
ANNUAL SEVEN-DAY MINIMUM	61	Sep 15	61	Oct 2	16	Sep 2, 1986
MAXIMUM PEAK FLOW			19,000*	Sep 17	19,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			16.27*	Sep 17	16.27*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			52*	Oct 4	4.2	Sep 5, 1986
10 PERCENT EXCEEDS	328		309		305	
50 PERCENT EXCEEDS	151		132		110	
90 PERCENT EXCEEDS	73		76		44	

* See REMARKS.
e Estimated.

